



Thursday, December 03, 2020

Attn: Ms. Jennifer Atkins
AECOM
250 Apollo Drive
Chelmsford, MA 01824

Project ID: GULF CHELSEA TERMINAL 60597375-0500
SDG ID: GCH21988
Sample ID#s: CH21988 - CH21989

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller

Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Sample Id Cross Reference

December 03, 2020

SDG I.D.: GCH21988

Project ID: GULF CHELSEA TERMINAL 60597375-0500

Client Id	Lab Id	Matrix
OUTFALL 003	CH21988	SW DISCHARGE
TRIP BLANK	CH21989	WATER



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 03, 2020

FOR: Attn: Ms. Jennifer Atkins
AECOM
250 Apollo Drive
Chelmsford, MA 01824

Sample Information

Matrix: SW DISCHARGE
Location Code: AECOME-GULF
Rush Request: 72 Hour
P.O.#: 112185

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

<u>Date</u>	<u>Time</u>
11/29/20	15:05
11/30/20	16:45

Laboratory Data

SDG ID: GCH21988
Phoenix ID: CH21988

Project ID: GULF CHELSEA TERMINAL 60597375-0500
Client ID: OUTFALL 003

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Oil and Grease by EPA 1664A	< 1.4	1.4	mg/L	1	12/03/20	MSF	EPA 1664
pH	7.76	1.00	pH Units	1	11/30/20 21:24	AP	SM4500-H B-11
Total Suspended Solids	17	3.3	mg/L	0.7	12/01/20	LS/QH	SM 2540D-11
Semi-Volatile Extraction	Completed				12/01/20	P/CG	SW3520C

Aromatic Volatiles w/Napthalene

Benzene	ND	1.0	ug/L	1	11/30/20	MH	E624.1
Napthalene	ND	1.0	ug/L	1	11/30/20	MH	E624.1

QA/QC Surrogates

% 1,2-dichlorobenzene-d4	102		%	1	11/30/20	MH	70 - 130 %
% Bromofluorobenzene	100		%	1	11/30/20	MH	70 - 130 %
% Dibromofluoromethane	107		%	1	11/30/20	MH	70 - 130 %
% Toluene-d8	100		%	1	11/30/20	MH	70 - 130 %

Semivolatiles by SIM, PAH

Benzo(a)pyrene	ND	0.02	ug/L	1	12/02/20	WB	E625.1
Napthalene	ND	0.10	ug/L	1	12/02/20	WB	E625.1

QA/QC Surrogates

% 2-Fluorobiphenyl	66		%	1	12/02/20	WB	40 - 140 %
% Nitrobenzene-d5	70		%	1	12/02/20	WB	40 - 140 %
% Terphenyl-d14	60		%	1	12/02/20	WB	40 - 140 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

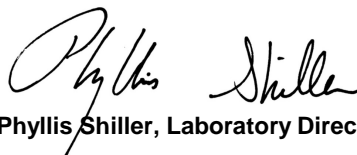
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

December 03, 2020

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 03, 2020

FOR: Attn: Ms. Jennifer Atkins
AECOM
250 Apollo Drive
Chelmsford, MA 01824

Sample Information

Matrix: WATER
Location Code: AECOME-GULF
Rush Request: Standard
P.O.#: 112185

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time
11/29/20
11/30/20 16:45

Laboratory Data

SDG ID: GCH21988
Phoenix ID: CH21989

Project ID: GULF CHELSEA TERMINAL 60597375-0500
Client ID: TRIP BLANK

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Aromatic Volatiles w/Napthalene</u>							
Benzene	ND	1.0	ug/L	1	11/30/20	MH	E624.1
Napthalene	ND	1.0	ug/L	1	11/30/20	MH	E624.1
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	1	11/30/20	MH	70 - 130 %
% Bromofluorobenzene	100		%	1	11/30/20	MH	70 - 130 %
% Dibromofluoromethane	106		%	1	11/30/20	MH	70 - 130 %
% Toluene-d8	102		%	1	11/30/20	MH	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

December 03, 2020

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

December 03, 2020

QA/QC Data

SDG I.D.: GCH21988

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 554898 (mg/L), QC Sample No: CH20708 (CH21988)													
Total Suspended Solids	BRL	2.5	3.3	<3.3	NC	94.0						85 - 115	
QA/QC Batch 555232 (mg/L), QC Sample No: CH21158 (CH21988)													
Oil and Grease by EPA 1664A	BRL	1.4				95.0	97.0	2.1				85 - 115	20
Comment:													
A Blank spike was performed instead of a matrix spike													
Additional: MS acceptance range 75-125%.													
QA/QC Batch 554882 (pH), QC Sample No: CH21956 (CH21988)													
pH			7.3	7.58	3.80	97.2						85 - 115	20
Comment:													
Additional: LCS acceptance range is 85-115% MS acceptance range 75-125%.													



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

December 03, 2020

QA/QC Data

SDG I.D.: GCH21988

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 554972 (ug/L), QC Sample No: CH20790 (CH21988)										
<u>Semivolatiles by SIM, PAH</u>										
Benzo(a)pyrene	ND	0.20	104	101	2.9				40 - 140	20
Naphthalene	ND	0.50	56	58	3.5				40 - 140	20
% 2-Fluorobiphenyl	73	%	68	68	0.0				40 - 140	20
% Nitrobenzene-d5	86	%	72	74	2.7				40 - 140	20
% Terphenyl-d14	84	%	101	94	7.2				40 - 140	20

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8270 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 10-110%, for soils 30-130%)

QA/QC Batch 554929 (ug/L), QC Sample No: CH21989 (CH21988, CH21989)

Volatiles - Water


Benzene	ND	0.70	95	97	2.1	93	97	4.2	65 - 135	20
Naphthalene	ND	1.0	95	95	0.0	88	91	3.4	70 - 130	30
% 1,2-dichlorobenzene-d4	100	%	101	101	0.0	100	101	1.0	70 - 130	30
% Bromofluorobenzene	99	%	102	102	0.0	104	102	1.9	70 - 130	30
% Dibromofluoromethane	108	%	110	110	0.0	104	106	1.9	70 - 130	30
% Toluene-d8	99	%	101	103	2.0	102	100	2.0	70 - 130	30

Comment:

A blank MS/MSD was analyzed with this batch.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference


Phyllis Shiller, Laboratory Director
December 03, 2020

Criteria: None
State: MA

Sample Criteria Exceedances Report
GCH21988 - AECOME-GULF

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
--------	-------	-----------------	----------	--------	----	----------	----------------	-------------------

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Comments

December 03, 2020

SDG I.D.: GCH21988

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.



CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Customer: AECOM

Address: 250 Apollo Drive

Chelmsford, MA 01824

Jennifer Atkins

Project: Gulf Chelsea Terminal / 60597375-0500

Report to: Jennifer Atkins

Invoice to: AECOM

QUOTE # AE012319RM

Project P.O.: 112185

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: *[Signature]* Date: 11-29-20

Matrix Code: GW=Ground Water SW=Surface Water WW=Waste Water
RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe Oil=Oil
B=Bulk L=Liquid

PHOENIX USE ONLY
SAMPLE # 21988
21989
Customer Sample Identification: Outfall 003
Trip Blank

Time Sampled

Date Sampled

Sample Matrix

Analysis Request

PH TSS O&G #AECOM624-MONTH #AECOM625PAH

GL Amber 8 oz. W/300X
GL Soil container () oz
GL Soil container () oz
GL Soil container () oz
GL Amber 1000ml () As Is () HCl
GL Amber 1000ml () As Is () H2SO4
GL Amber 250ml () As Is () H2SO4
GL Amber 250ml () As Is () H2SO4
GL Amber 250ml () As Is () H2SO4

Relinquished by: *[Signature]*

Accepted by: *[Signature]*

Date: 11/30/20

Time: 1145

RI Direct Exposure (Residential) GW Other

CT RCP Cert GW Protection SW Protection GA Mobility GB Mobility Residential DEC I/C DEC Other

MA MCP Certification GW-1 GW-2 GW-3 S-1 S-2 S-3 MWRA eSMART Other

Data Format Excel PDF GIS/Key EQulS Other

Data Package Tier II Checklist Full Data Package* Phoenix Std Report Other

Comments, Special Requirements or Regulations:

* Please run TSS 3 day TAT!

Turnaround: 1 Day* 2 Days* 3 Days* Standard Other

See Comments

* SURCHARGE APPLIES

State where samples were collected: MA

* SURCHARGE APPLIES